RECEIVED **CENTRAL FAX CENTER** SEP 0 4 2007

U.S. Application Serial No. 10/603,279 Office Action Mailed May 1, 2007 Amendment in response filed on September 4, 2007

## AMENDMENTS TO THE CLAIMS

The following listing of the Claims replaces all previous versions and listings of the Claims.

- (Previously Presented) A method for removing asparagine or converting asparagine to a different substance by hydrolyzing the amide group of the asparagine to form aspartic acid in a corn-based food material comprising adding asparaginase enzyme to the food material before heating.
- 2. (Canceled)
- 3. (Previously Presented) The method of claim 1, wherein at least about 10% of the asparagine is converted to a different substance or removed.
- 4. (Canceled)
- 5. (Previously Presented) A method for removing asparagine or converting asparagine to a different substance by hydrolyzing the amide group of the asparagine to form aspartic acid in a corn-based food material, comprising:
  - adding asparaginase enzyme to the corn-based food material, wherein said (1) corn based food material comprises asparagine;
  - (2) optionally mixing the enzyme with the corn based food material;
  - allowing a sufficient time for the enzyme to react with the asparagine; and (3)
  - (4) optionally deactivating or optionally removing the enzyme.
- 6-9. (Canceled)
- 10. (Previously Presented) A method for reducing the level of acrylamide formed in heated com-based food products, comprising:
  - adding asparaginase to a com-based food material, wherein said com-(1) based food material comprises asparagine;
  - (2) optionally mixing the enzyme with the corn-based food material;

U.S. Application Serial No. 10/603,279
Office Action Mailed May 1, 2007
Amendment in response filed on September 4, 2007

- (3) allowing a sufficient time for the enzyme to react with the asparagine whereby at least a portion of the asparagine is removed or is converted to a different substance by hydrolyzing the amide group of the asparagine to form aspartic acid;
- (4) optionally deactivating or optionally removing the enzyme; and
- (5) heating the corn-based food material to form the heated corn-based food product.
- 11. (Previously Presented) A corn-based food material prepared according to the method of claim 1, wherein at least about 10% of the asparagine is converted to a different substance or is removed.
- 12. (Previously Presented) A corn-based food material prepared according to the method of claim 1, wherein at least about 30% of the asparagine is converted to a different substance or is removed.
- 13. (Previously Presented) A corn-based food material prepared according to the method of claim 1, wherein at least about 50% of the asparagine is converted to a different substance or is removed.
- 14. (Previously Presented) A corn-based food material prepared according to the method of claim 1, wherein at least about 70% of the asparagine is converted to a different substance or is removed.
- 15. (Previously Presented) A corn-based food material prepared according to the method of claim 14, wherein at least about 90% of the asparagine is converted to a different substance or is removed.

16-44. (Canceled)